

TAG: Learning Set 1.8
Explore – Race to the Finish

Name _____
Hour _____ Date _____

The Physics Triple Play

Read pp. 65-66. Describe each of the following competitions.

Race to the Finish:



Road Rally:

Our group will participate in the following competition: _____

Read pp. 67-68 “Plan Your Race to the Finish.” Plan a procedure for collecting data you will need in order to predict the exact amount of time it will take for each car to reach the finish line at different distances and the order in which the cars will finish.

Procedure

Step	
1	
2	
3	
4	
5	
6	
7	

CAR #: _____

Distance	Time	Amount of Veer (to the right of to the left)
	Average:	Average:

CAR #: _____

Distance	Time	Amount of Veer (to the right of to the left)
	Average:	Average:

CAR #: _____

Distance	Time	Amount of Veer (to the right of to the left)
	Average:	Average:

CAR #: _____

Distance	Time	Amount of Veer (to the right of to the left)
	Average:	Average:

Predictions:

1 st Place Coaster Car	Car #	Predicted Time:	Actual Time:
2 nd Place Coaster Car	Car #	Predicted Time:	Actual Time:
3 rd Place Coaster Car	Car #	Predicted Time:	Actual Time:
4 th Place Coaster Car	Car #	Predicted Time:	Actual Time:

Reflect

1. Describe how well your prediction matched the outcomes of your event.

2. How could you have improved your prediction? Are there other factors that you should have taken into account?

3. What else do you need to learn about motion or forces to be able to better predict a car's performance?

Update the Project Board with your class: columns "What we are learning" and "What is our Evidence."